# AP3 Rec'd PC1/PTO 02 JUN 2086

Attorney Docket No. 14014.0417U2

<110> John A. Chiorini

#### SEQUENCE LISTING

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Michael Schmidt
     Ioannis Bossis
     Di Giovanni Pasquale
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## Attorney Docket No. 14014.0417U2

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125

120

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Ile Met Ser Leu Thr Lys Ser Ala Ser Asp Tyr Leu Val Gly Gln Thr
Val Pro Glu Asp Ile Ser Glu Asn Arg Ile Trp Gln Ile Phe Asp Leu
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540

600

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720

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1.25

120

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aagetgacca aaacaaactt ttetggetac egcaaaaact ggeteeeggg geecatgatg
                                                                      1500
aagcagcaga gattctccaa gactgccagt caaaactaca agattcccca gggaagaaac
aacagtotgo tocattatga gaccagaact accotogacg gaagatggag caattttgco
                                                                      1560
ccqqqaacqq ccatggcaac cgcagccaac gacgccaccg acttctctca ggcccagctc
                                                                      1620
atctttqcqq qqcccaacat caccqgcaac accaccacag atgccaataa cctgatgttc
                                                                      1680
acttcagaag atgaacttag ggccaccaac ccccgggaca ctgacctgtt tggccacctg
                                                                      1740
qcaaccaacc aqcaaaacqc caccaccqtt cctaccqtaq acqacqtqqa cqqaqtcgqc
                                                                      1800
qtgtacccgg gaatggtgtg gcaggacaga gacatttact accaagggcc catttgggcc
                                                                      1860
aaaattccac acacggatgg acactttcac ccgtctcctc tcattggcgg atttggactg
                                                                      1920
aaaaqcccqc ctccacaaat attcatcaaa aacactcctg tacccgccaa tcccgcaacg
                                                                      1980
accttctctc cqqccaqaat caacaqcttc atcacccagt acagcaccgg acaggtggct
                                                                      2040
gtcaaaatag aatgggaaat ccagaaggag cggtccaaga gatggaaccc agaggtccag
                                                                      2100
ttcacqtcca actacqqaqc acaqqactcq cttctctqqq ctcccqacaa cqccqqaqcc
                                                                      2160
tacaaagagc ccagggccat tggatcccga tacctcacca accacctcta g
                                                                      2211
<210> 7
<211> 736
<212> PRT
<213> Artificial Sequence
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      construct
Met Ser Phe Val Asp His Pro Pro Asp Trp Leu Glu Ser Ile Gly Asp
                                    10
Gly Phe Arg Glu Phe Leu Gly Leu Glu Ala Gly Pro Pro Lys Pro Lys
                                25
Ala Asn Gln Gln Lys Gln Asp Asn Ala Arg Gly Leu Val Leu Pro Gly
                            40
Tyr Lys Tyr Leu Gly Pro Gly Asn Gly Leu Asp Lys Gly Asp Pro Val
```

Asn Phe Ala Asp Glu Val Ala Arg Glu His Asp Leu Ser Tyr Gln Lys 75 Gln Leu Glu Ala Gly Asp Asn Pro Tyr Leu Lys Tyr Asn His Ala Asp Ala Glu Phe Gln Glu Lys Leu Ala Ser Asp Thr Ser Phe Gly Gly Asn 105 Leu Gly Lys Ala Val Phe Gln Ala Lys Lys Arg Ile Leu Glu Pro Leu 120 125 Gly Leu Val Glu Thr Pro Asp Lys Thr Ala Pro Ala Ala Lys Lys Arg 135 Pro Leu Glu Gln Ser Pro Gln Glu Pro Asp Ser Ser Gly Val Gly 155 150 Lys Lys Gly Lys Gln Pro Ala Arg Lys Arg Leu Asn Phe Asp Asp Glu 170 175 Pro Gly Ala Gly Asp Gly Pro Pro Pro Glu Gly Pro Ser Ser Gly Ala 185 180 Met Ser Thr Glu Thr Glu Met Arg Ala Ala Gly Gly Asn Gly Gly 200 195 205

Asp Ala Gly Gln Gly Ala Glu Gly Val Gly Asn Ala Ser Gly Asp Trp His Cys Asp Ser Thr Trp Ser Glu Ser His Val Thr Thr Ser Thr Arg Thr Trp Val Leu Pro Thr Tyr Asn Asn His Leu Tyr Leu Arg Leu Gly Ser Ser Asn Ala Ser Asp Thr Phe Asn Gly Phe Ser Thr Pro Trp Gly Tyr Phe Asp Phe Asn Arg Phe His Cys His Phe Ser Pro Arg Asp Trp Gln Arg Leu Ile Asn Asn His Trp Gly Leu Arg Pro Lys Ser Met Gln Val Arg Ile Phe Asn Ile Gln Val Lys Glu Val Thr Thr Ser Asn Gly Glu Thr Thr Val Ser Asn Asn Leu Thr Ser Thr Val Gln Ile Phe Ala Asp Ser Thr Tyr Glu Leu Pro Tyr Val Met Asp Ala Gly Gln Glu Gly Ser Leu Pro Pro Phe Pro Asn Asp Val Phe Met Val Pro Gln Tyr Gly Tyr Cys Gly Leu Val Thr Gly Gly Ser Ser Gln Asn Gln Thr Asp Arg Asn Ala Phe Tyr Cys Leu Glu Tyr Phe Pro Ser Gln Met Leu Arg Thr Gly Asn Asn Phe Glu Met Val Tyr Lys Phe Glu Asn Val Pro Phe His Ser Met Tyr Ala His Ser Gln Ser Leu Asp Arg Leu Met Asn Pro Leu Leu Asp Gln Tyr Leu Trp Glu Leu Gln Ser Thr Thr Ser Gly Gly Thr Leu Asn Gln Gly Asn Ser Ala Thr Asn Phe Ala Lys Leu Thr Lys Thr Asn Phe Ser Gly Tyr Arg Lys Asn Trp Leu Pro Gly Pro Met Met Lys Gln Gln Arg Phe Ser Lys Thr Ala Ser Gln Asn Tyr Lys Ile Pro Gln Gly Arg Asn Asn Ser Leu Leu His Tyr Glu Thr Arg Thr Thr Leu Asp Gly Arg Trp Ser Asn Phe Ala Pro Gly Thr Ala Met Ala Thr Ala Ala Asn Asp Ala Thr Asp Phe Ser Gln Ala Gln Leu Ile Phe Ala Gly Pro Asn Ile Thr Gly Asn Thr Thr Asp Ala Asn Asn Leu Met Phe Thr Ser Glu Asp Glu Leu Arg Ala Thr Asn Pro Arg Asp Thr Asp Leu Phe Gly His Leu Ala Thr Asn Gln Gln Asn Ala Thr Thr Val Pro Thr Val Asp Asp Val Asp Gly Val Gly Val Tyr Pro Gly Met Val Trp Gln Asp Arg Asp Ile Tyr Tyr Gln Gly Pro Ile Trp Ala Lys Ile Pro His Thr Asp Gly His Phe His Pro Ser Pro Leu Ile Gly Gly Phe Gly Leu Lys Ser Pro Pro Pro Gln Ile Phe Ile Lys Asn Thr Pro Val Pro Ala Asn Pro Ala Thr Thr Phe Ser Pro Ala Arg Ile Asn Ser Phe Ile Thr Gln Tyr Ser Thr Gly Gln Val Ala Val Lys Ile Glu Trp Glu Ile Gln 

```
Lys Glu Arg Ser Lys Arg Trp Asn Pro Glu Val Gln Phe Thr Ser Asn
                                            700
                        695
Tyr Gly Ala Gln Asp Ser Leu Leu Trp Ala Pro Asp Asn Ala Gly Ala
                    710
                                        715
705
Tyr Lys Glu Pro Arg Ala Ile Gly Ser Arg Tyr Leu Thr Asn His Leu
                725
                                    730
<210> 8
<211> 1803
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; note=synthetic
      construct
<400> 8
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agcqqaqttq gcaagaaagg caaacagcct gccagaaaga gactcaactt tgacgacgaa
                                                                       120
                                                                       180
cctqqaqccq qaqacqqqcc tcccccagaa ggaccatctt ccggagctat gtctactgag
                                                                       240
actqaaatqc qtqcaqcaqc tggcggaaat ggtggcgatg cgggacaagg tgccgaggga
                                                                       300
qtqqqtaatq cctccqqtqa ttqqcattgc gattccactt ggtcagagag ccacgtcacc
accacctcaa cccgcacctg ggtcctgccg acctacaaca accacctgta cctgcggctc
                                                                       360
ggctcgagca acgccagcga caccttcaac ggattctcca ccccctgggg atactttgac
                                                                       420
tttaaccgct tccactgcca cttctcgcca agagactggc aaaggctcat caacaaccac
                                                                       480
tqqqqactqc qccccaaaaq catqcaaqtc cqcatcttca acatccaagt taaggaggtc
                                                                       540
                                                                       600
acgacgtcta acggggagac gaccgtatcc aacaacctca ccagcacggt ccagatcttt
                                                                       660
geggacagea egtacgaget ecegtacgtg atggatgeag gteaggaggg cagettgeet
cctttcccca acgacgtgtt catggtgcct cagtacgggt actgcggact ggtaaccgga
                                                                       720
                                                                       780
ggcagetete aaaaccagae agacagaaat geettetaet gtetggagta ettteecage
cagatgctga gaaccggaaa caactttgag atggtgtaca agtttgaaaa cgtgcccttc
                                                                       840
                                                                       900
cactccatgt acgctcacag ccagagcctg gataggctga tgaacccgct gctggaccag
tacctgtggg agctccagtc taccacctct ggaggaactc tcaaccaggg caattcagcc
                                                                       960
                                                                      1020
accaactttg ccaagetgac caaaacaaac ttttctggct accgcaaaaa ctggctcccg
qqqcccatqa tqaaqcaqca qagattctcc aagactgcca gtcaaaacta caagattccc
                                                                      1080
caqqqaaqaa acaacaqtct qctccattat qagaccagaa ctaccctcga cggaagatgg
                                                                      1140
agcaattttg ccccgggaac ggccatggca accgcagcca acgacgccac cgacttctct
                                                                      1200
caggeceage teatetttge ggggeceaac ateaceggea acaceaceae agatgecaat
                                                                      1260
aacctgatqt tcacttcaga agatgaactt agggccacca acccccggga cactgacctg
                                                                      1320
tttggccacc tggcaaccaa ccagcaaaac gccaccaccg ttcctaccgt agacgacgtg
                                                                      1380
gacggagtcg gcgtgtaccc gggaatggtg tggcaggaca gagacattta ctaccaaggg
                                                                      1440
cccatttggg ccaaaattcc acacaggat ggacactttc acccgtctcc tctcattggc
                                                                      1500
ggatttggac tgaaaagccc gcctccacaa atattcatca aaaacactcc tgtacccgcc
                                                                      1560
aatcccgcaa cgaccttctc tccggccaga atcaacagct tcatcaccca gtacagcacc
                                                                      1620
ggacaggtgg ctgtcaaaat agaatgggaa atccagaagg agcggtccaa gagatggaac
                                                                      1680
ccagaggtec agitcacgte caactacgga gcacaggact cgcttctctg ggctcccgac
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aacgccggag cctacaaaga gcccagggcc attggatccc gatacctcac caaccacctc
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                                                                      1803
tag
<210> 9
<211> 600
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; note=synthetic
      construct
<400> 9
Thr Ala Pro Ala Ala Lys Lys Arg Pro Leu Glu Gln Ser Pro Gln Glu
                                    10
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Pro Asp Ser Ser Ser Gly Val Gly Lys Lys Gly Lys Gln Pro Ala Arg
Lys Arg Leu Asn Phe Asp Asp Glu Pro Gly Ala Gly Asp Gly Pro Pro
                            40
Pro Glu Gly Pro Ser Ser Gly Ala Met Ser Thr Glu Thr Glu Met Arg
                        55
Ala Ala Ala Gly Gly Asn Gly Gly Asp Ala Gly Gln Gly Ala Glu Gly
                                        75
Val Gly Asn Ala Ser Gly Asp Trp His Cys Asp Ser Thr Trp Ser Glu
                85
                                    90
Ser His Val Thr Thr Thr Ser Thr Arg Thr Trp Val Leu Pro Thr Tyr
            100
                               105
Asn Asn His Leu Tyr Leu Arg Leu Gly Ser Ser Asn Ala Ser Asp Thr
                            120
                                                125
Phe Asn Gly Phe Ser Thr Pro Trp Gly Tyr Phe Asp Phe Asn Arg Phe
                        135
                                            140
His Cys His Phe Ser Pro Arg Asp Trp Gln Arg Leu Ile Asn Asn His
                                        155
Trp Gly Leu Arg Pro Lys Ser Met Gln Val Arg Ile Phe Asn Ile Gln
                                    170
Val Lys Glu Val Thr Thr Ser Asn Gly Glu Thr Thr Val Ser Asn Asn
                                185
            180
Leu Thr Ser Thr Val Gln Ile Phe Ala Asp Ser Thr Tyr Glu Leu Pro
                            200
Tyr Val Met Asp Ala Gly Gln Glu Gly Ser Leu Pro Pro Phe Pro Asn
                                            220
                        215
Asp Val Phe Met Val Pro Gln Tyr Gly Tyr Cys Gly Leu Val Thr Gly
                                        235
                    230
Gly Ser Ser Gln Asn Gln Thr Asp Arg Asn Ala Phe Tyr Cys Leu Glu
                                    250
                245
Tyr Phe Pro Ser Gln Met Leu Arg Thr Gly Asn Asn Phe Glu Met Val
            260
                                265
Tyr Lys Phe Glu Asn Val Pro Phe His Ser Met Tyr Ala His Ser Gln
                            280
Ser Leu Asp Arg Leu Met Asn Pro Leu Leu Asp Gln Tyr Leu Trp Glu
                        295
                                            300
Leu Gln Ser Thr Thr Ser Gly Gly Thr Leu Asn Gln Gly Asn Ser Ala
                    310
                                        315
Thr Asn Phe Ala Lys Leu Thr Lys Thr Asn Phe Ser Gly Tyr Arg Lys
                325
                                    330
. Asn Trp Leu Pro Gly Pro Met Met Lys Gln Gln Arg Phe Ser Lys Thr
                                345
Ala Ser Gln Asn Tyr Lys Ile Pro Gln Gly Arg Asn Asn Ser Leu Leu
                            360
His Tyr Glu Thr Arg Thr Thr Leu Asp Gly Arg Trp Ser Asn Phe Ala
                        375
                                            380
Pro Gly Thr Ala Met Ala Thr Ala Ala Asn Asp Ala Thr Asp Phe Ser
                    390
                                        395
Gln Ala Gln Leu Ile Phe Ala Gly Pro Asn Ile Thr Gly Asn Thr Thr
                405
                                    410
Thr Asp Ala Asn Asn Leu Met Phe Thr Ser Glu Asp Glu Leu Arg Ala
            420
                                425
Thr Asn Pro Arg Asp Thr Asp Leu Phe Gly His Leu Ala Thr Asn Gln
                            440
Gln Asn Ala Thr Thr Val Pro Thr Val Asp Asp Val Asp Gly Val Gly
                        455
                                            460
Val Tyr Pro Gly Met Val Trp Gln Asp Arg Asp Ile Tyr Tyr Gln Gly
                    470
                                        475
Pro Ile Trp Ala Lys Ile Pro His Thr Asp Gly His Phe His Pro Ser
                                    490
```

```
Pro Leu Ile Gly Gly Phe Gly Leu Lys Ser Pro Pro Pro Gln Ile Phe
           500
                               505
                                                   510
Ile Lys Asn Thr Pro Val Pro Ala Asn Pro Ala Thr Thr Phe Ser Pro
                                               525
       515
                           520
Ala Arq Ile Asn Ser Phe Ile Thr Gln Tyr Ser Thr Gly Gln Val Ala
    530
                       535
                                           540
Val Lys Ile Glu Trp Glu Ile Gln Lys Glu Arg Ser Lys Arg Trp Asn
                                                           560
                   550
                                       555
Pro Glu Val Gln Phe Thr Ser Asn Tyr Gly Ala Gln Asp Ser Leu Leu
                                   570
Trp Ala Pro Asp Asn Ala Gly Ala Tyr Lys Glu Pro Arg Ala Ile Gly
                                585
Ser Arg Tyr Leu Thr Asn His Leu
<210> 10
<211> 1617
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; note=synthetic
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aatgcctccg gtgattggca ttgcgattcc acttggtcag agagccacgt caccaccacc
                                                                      120
180
agcaacgcca gcgacacctt caacggattc tccaccccct ggggatactt tgactttaac
                                                                     240
cgcttccact gccacttctc gccaagagac tggcaaaggc tcatcaacaa ccactgggga
                                                                     300
ctgcgccca aaagcatgca agtccgcatc ttcaacatcc aagttaagga ggtcacgacg
                                                                     360
tctaacgggg agacgaccgt atccaacaac ctcaccagca cggtccagat ctttgcggac
                                                                     420
agcacgtacg agctcccgta cgtgatggat gcaggtcagg agggcagctt gcctcctttc
                                                                     480
                                                                      540
cccaacgacg tgttcatggt gcctcagtac gggtactgcg gactggtaac cggaggcagc
tctcaaaacc agacagacag aaatgccttc tactgtctgg agtactttcc cagccagatg
                                                                      600
ctgagaaccg gaaacaactt tgagatggtg tacaagtttg aaaacgtgcc cttccactcc
                                                                      660
atqtacqctc acagccagag cctggatagg ctgatgaacc cgctgctgga ccagtacctg
                                                                      720
                                                                      780
tgqqaqctcc aqtctaccac ctctgqagga actctcaacc agggcaattc agccaccaac
                                                                      840
tttqccaaqc tqaccaaaac aaacttttct qqctaccqca aaaactggct cccggggccc
                                                                      900
atgatgaagc agcagagatt ctccaagact gccagtcaaa actacaagat tccccaggga
aqaaacaaca gtctgctcca ttatgagacc agaactaccc tcgacggaag atggagcaat
                                                                      960
tttgccccgg gaacggccat ggcaaccgca gccaacgacg ccaccgactt ctctcaggcc
                                                                     1020
cageteatet ttgeggggee caacateace ggeaacacea ceacagatge caataacetg
                                                                     1080
atgttcactt cagaagatga acttagggcc accaaccccc gggacactga cctgtttggc
                                                                     1140
cacctggcaa ccaaccagca aaacgccacc accgttccta ccgtagacga cgtggacgga
                                                                     1200
gtcggcgtgt acccgggaat ggtgtggcag gacagagaca tttactacca agggcccatt
                                                                     1260
tgggccaaaa ttccacacac ggatggacac tttcacccgt ctcctctcat tggcggattt
                                                                     1320
ggactgaaaa gcccgcctcc acaaatattc atcaaaaaca ctcctgtacc cgccaatccc
                                                                     1380
gcaacgacct tctctccggc cagaatcaac agcttcatca cccagtacag caccggacag
                                                                     1440
gtggctgtca aaatagaatg ggaaatccag aaggagcggt ccaagagatg gaacccagag
                                                                     1500
gtccagttca cgtccaacta cggagcacag gactcgcttc tctgggctcc cgacaacgcc
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qqaqcctaca aagagcccag ggccattgga tcccgatacc tcaccaacca cctctag
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<210> 11
<211> 538
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; note=synthetic
      construct
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<400> 11 Met Arg Ala Ala Gly Gly Asn Gly Gly Asp Ala Gly Gln Gly Ala 10 Glu Gly Val Gly Asn Ala Ser Gly Asp Trp His Cys Asp Ser Thr Trp 25 Ser Glu Ser His Val Thr Thr Thr Ser Thr Arg Thr Trp Val Leu Pro Thr Tyr Asn Asn His Leu Tyr Leu Arg Leu Gly Ser Ser Asn Ala Ser Asp Thr Phe Asn Gly Phe Ser Thr Pro Trp Gly Tyr Phe Asp Phe Asn 70 Arg Phe His Cys His Phe Ser Pro Arg Asp Trp Gln Arg Leu Ile Asn Asn His Trp Gly Leu Arg Pro Lys Ser Met Gln Val Arg Ile Phe Asn 105 Ile Gln Val Lys Glu Val Thr Thr Ser Asn Gly Glu Thr Thr Val Ser 120 Asn Asn Leu Thr Ser Thr Val Gln Ile Phe Ala Asp Ser Thr Tyr Glu 135 140 Leu Pro Tyr Val Met Asp Ala Gly Gln Glu Gly Ser Leu Pro Pro Phe 150 155 Pro Asn Asp Val Phe Met Val Pro Gln Tyr Gly Tyr Cys Gly Leu Val 165 170 Thr Gly Gly Ser Ser Gln Asn Gln Thr Asp Arg Asn Ala Phe Tyr Cys 180 185 Leu Glu Tyr Phe Pro Ser Gln Met Leu Arg Thr Gly Asn Asn Phe Glu 200 205 Met Val Tyr Lys Phe Glu Asn Val Pro Phe His Ser Met Tyr Ala His 215 220 Ser Gln Ser Leu Asp Arg Leu Met Asn Pro Leu Leu Asp Gln Tyr Leu 230 235 Trp Glu Leu Gln Ser Thr Thr Ser Gly Gly Thr Leu Asn Gln Gly Asn 250 Ser Ala Thr Asn Phe Ala Lys Leu Thr Lys Thr Asn Phe Ser Gly Tyr 265 Arg Lys Asn Trp Leu Pro Gly Pro Met Met Lys Gln Gln Arg Phe Ser 280 Lys Thr Ala Ser Gln Asn Tyr Lys Ile Pro Gln Gly Arg Asn Asn Ser 295 Leu Leu His Tyr Glu Thr Arg Thr Thr Leu Asp Gly Arg Trp Ser Asn 310 315 Phe Ala Pro Gly Thr Ala Met Ala Thr Ala Ala Asn Asp Ala Thr Asp 330 325 Phe Ser Gln Ala Gln Leu Ile Phe Ala Gly Pro Asn Ile Thr Gly Asn 345 Thr Thr Asp Ala Asn Asn Leu Met Phe Thr Ser Glu Asp Glu Leu 360 365 Arg Ala Thr Asn Pro Arg Asp Thr Asp Leu Phe Gly His Leu Ala Thr 375 380 Asn Gln Gln Asn Ala Thr Thr Val Pro Thr Val Asp Asp Val Asp Gly 395 390 Val Gly Val Tyr Pro Gly Met Val Trp Gln Asp Arg Asp Ile Tyr Tyr 410 405 Gln Gly Pro Ile Trp Ala Lys Ile Pro His Thr Asp Gly His Phe His 425 Pro Ser Pro Leu Ile Gly Gly Phe Gly Leu Lys Ser Pro Pro Pro Gln 440 445 Ile Phe Ile Lys Asn Thr Pro Val Pro Ala Asn Pro Ala Thr Thr Phe 455

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Ser Pro Ala Arg Ile Asn Ser Phe Ile Thr Gln Tyr Ser Thr Gly Gln
465
                    470
                                         475
Val Ala Val Lys Ile Glu Trp Glu Ile Gln Lys Glu Arg Ser Lys Arg
                485
                                     490
                                                         495
Trp Asn Pro Glu Val Gln Phe Thr Ser Asn Tyr Gly Ala Gln Asp Ser
            500
                                505
                                                     510
Leu Leu Trp Ala Pro Asp Asn Ala Gly Ala Tyr Lys Glu Pro Arg Ala
                            520
                                                 525
Ile Gly Ser Arg Tyr Leu Thr Asn His Leu
                        535
<210> 12
<211> 150
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; note=synthetic
      construct
<400> 12
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                                                                         60
tcaaaqagct gccagacqac ggccctctgg gccgtcgccc ccccaatcga gccagcgaac
                                                                        120
gagcgaacgc gacagggggg ggagtgccac
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<210> 13
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; note=synthetic
      construct
<400> 13
ctctagcaag ggggttttgt
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<210> 14
<211> 7
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; note=synthetic
      construct
<400> 14
                                                                          7
agtgtgg
<210> 15
<211> 158
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence; note=synthetic
      construct
<400> 15
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                                                                         60
tcatgtgatg tgtgttatcc aataggatga aagcgcgcga atgagatctc gcgagacttc
                                                                        120
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158
cggggtataa aaggggtgag tgaacgagcc cgccgcca
<210> 16
<211> 112
<212> DNA
<213> Artificial Sequence
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<400> 16
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ggcgtggact aacctcgaag agtataaatt ggccgccctc aatctggagg ag
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<210> 17
<211> 169
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; note=synthetic
      construct
<400> 17
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ggttcccaag aaagtggcgg gaactgagag ggcggagact tctagaaaac gcccactgga
                                                                        120
tgacgtcacc aataccaact ataaaagtcc ggagaagcgg gcccggctc
                                                                        169
<210> 18
<211> 8
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; note=synthetic
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<400> 18
Gly Ser Ser Asn Ala Ser Asp Thr
<210> 19
<211> 14
<212> PRT
<213> Artificial Sequence
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Thr Thr Ser Gly Gly Thr Leu Asn Gln Gly Asn Ser Ala Thr
                 5
                                     10
<210> 20
<211> 6
<212> PRT
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<223> Description of Artificial Sequence; note=synthetic
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<400> 20
Asn Gly Arg Ala His Ala
<210> 21
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence; note=synthetic
      construct
<400> 21
Ser Ile Gly Tyr Pro Leu Pro
                 5
<210> 22
<211> 10
<212> PRT
<213> Artificial Sequence
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      construct
Lys Phe Asn Lys Pro Phe Val Phe Leu Ile
<210> 23
<211> 22
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; note=synthetic
      construct
<400> 23
Asn Ile Ser Leu Asp Asn Pro Leu Glu Asn Pro Ser Ser Leu Phe Asp
                                    10
Leu Val Ala Arg Ile Lys
            20
```

1